

ABSTRACT

The organozirconium composite of the present invention has a decomposition temperature which is near the respective decomposition temperatures of an organolead compound and an organotitanium compound. The raw material solution can precisely control the composition of a PZT thin film over a broad temperature range. The raw material solution is less likely to react an organolead compound even when mixed with the organolead compound. The present invention provides a raw material solution which is less likely to cause vapor phase cracking. The organozirconium composite comprises one, or at least two kinds of zirconium chelate complexes containing, as a ligand, both of a first β diketone and a second β diketone having a structure different from that of the first β diketone, wherein, when at least two kinds of zirconium chelate complexes are contained, the coordination numbers of the first β diketone and the second β diketone that coordinate to at least two kinds of zirconium chelate complexes vary depending on the respective zirconium chelate complexes.